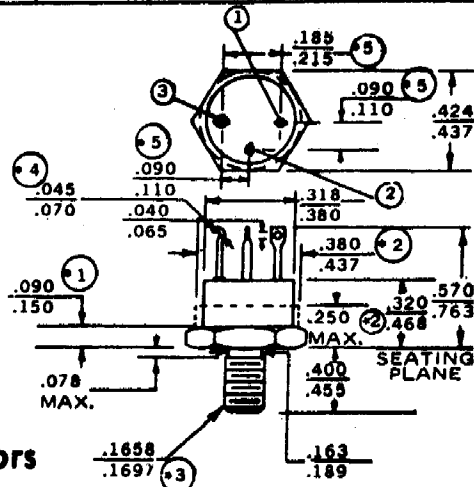


2N5075
2N5076
2N5077

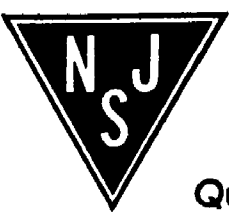
NPN
200, 250V
3.0 AMP SWITCHING

MAXIMUM RATINGS ($T_c = 25^\circ\text{C}$ unless otherwise noted)					
RATING	SYMBOL	2N5075	2N5076	2N5077	UNIT
Collector-Base Voltage	V_{CB0}	200	250	250	Volts
Collector-Emitter Voltage	V_{CE0}	200	250	250	Volts
Emitter-Base Voltage	V_{EB0}	6.0	6.0	6.0	Volts
Collector Current—Continuous	I_c	3.0	3.0	3.0	Amps
Peak	I_{CM}	5.0	5.0	5.0	Amps
Base Current—Continuous	I_B	0.3	0.3	0.3	Amps
Total Power Dissipation @ $T_c = 25^\circ\text{C}$	P_D	70	70	70	Watts
Junction to Case Thermal Resistance	$R_{\theta JC}$	2.5	2.5	2.5	$^\circ\text{C/W}$
Operating and Storage Junction Temperature Range	$T_{J(oper)}$ T_{stg}	-65 to +200	-65 to +200	-65 to +200	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_c = 25^\circ\text{C}$ unless otherwise noted)								
SYMBOL	CONDITIONS	2N5075		2N5076		2N5077		Unit
		Min	Max	Min	Max	Min	Max	
$V_{CE(sat)}$	$I_c = 25\text{mA}$	200	—	250	—	250	—	Volts
I_{CEX}	$V_{CE} = 200\text{V}, T_c = 150^\circ\text{C}$	—	1.0	—	1.0	—	1.0	mA
I_{CEX}	$V_{CE} = 200\text{V}$	—	0.25	—	0.25	—	0.25	μA
I_{EB0}	$V_{EB} = 6.0\text{V}$	—	1.0	—	1.0	—	1.0	mA
I_{EB0}	$V_{EB} = 5.0\text{V}$	—	10	—	10	—	10	μA
I_{CB0}	$V_{CE} = 150\text{V}$	—	10	—	10	—	10	μA
$h_{FE} \uparrow$	$V_{CE} = 5.0\text{V}, I_c = 3.0\text{A}$	15	—	10	—	15	—	
$h_{FE} \uparrow$	$V_{CE} = 5.0\text{V}, I_c = 0.5\text{A}$	90	250	30	110	90	250	
$h_{FE} \uparrow$	$V_{CE} = 5.0\text{V}, I_c = 0.5\text{A}, T_c = -55^\circ\text{C}$	35	—	12	—	35	—	
$V_{CE(sat)} \uparrow$	$I_c = 3.0\text{A}, I_B = 0.3\text{A}$	—	2.0	—	2.0	—	2.0	Volts
$V_{BE(on)} \uparrow$	$V_{CE} = 5.0\text{V}, I_c = 3.0\text{A}$	—	2.2	—	2.2	—	2.2	Volts
$V_{BE(sat)} \uparrow$	$I_c = 3.0\text{A}, I_B = 0.3\text{A}$	—	2.2	—	2.2	—	2.2	Volts
$ h_{FE} $	$V_{CE} = 10\text{V}, I_c = 100\text{mA}, f = 20\text{MHz}$	2.0	—	2.0	—	2.0	—	
$ h_{FE} $	$V_{CE} = 10\text{V}, I_c = 250\text{mA}, f = 1.0\text{KHz}$	30	—	30	—	30	—	
C_{ob}	$V_{CE} = 10\text{V}, I_c = 0, f = 1.0\text{MHz}$	—	100	—	100	—	100	pF



- NOTES:**
1. Dimension does not include sealing flanges.
 2. The outline contour with exception of hexagon is optional within zones or dimension specified.
 3. Pitch diameter of 10-32 UNF-2A (coated) threads ASA B1.1-1960.
 4. This terminal can be flattened and pierced or hook type.
 5. Position of leads in relation to the hexagon is not controlled.



Quality Semi-Conductors